

Öko-Recherche

Büro für Umweltforschung und -beratung GmbH



INFLUENCES OF EU LEGISLATION ON ITALIAN INDUSTRY









9 maggio 2016 / 9 May 2016 09.00 – 18.00 Hotel NH Laguna Palace Mestre (VE)



Supporting F-gas policies



Barbara Gschrey
09 May 2016

Overview

- Consortium of partners
- Implementation of the EU Fgas Regulation
- Technical assessments
 - Assessment of low-GWP alternatives in commercial refrigeration
 - HFC price monitoring
 - Assessment of quota allocation



Consortium

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Prof. Michael Kauffeld





In cooperation with:





Implementation of the EU F-gas-Regulation

- Regulation 517/2014 in force since 2015
- Phase down:
 - Calculation of quota und reference values
 - Monitoring of HFC prices
 - Assessment of quota allocation mechanism
- Bans: Assessment of low-GWP alternatives in supermarket refrigeration (Annex III(13))

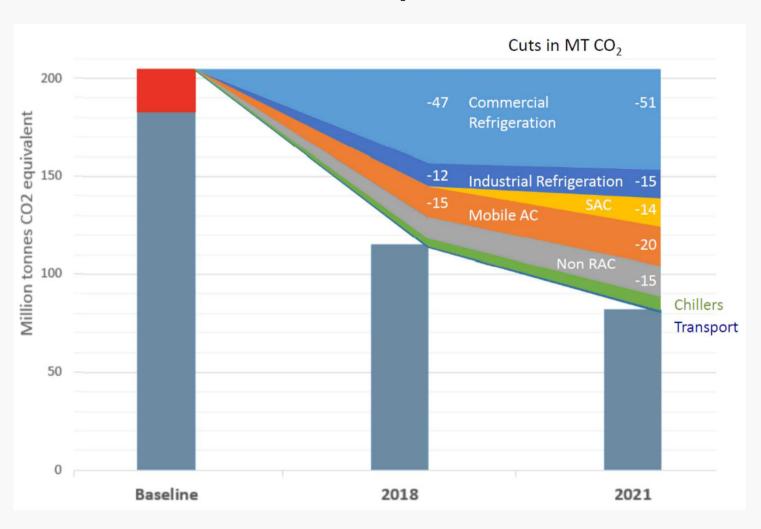
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Low-GWP alternatives in supermarkets

- Analysis of affected systems and available technological options
- Questionnaire to gather stakeholder input
- Close dialogue with industry experts



Quota and the HFC phase down: The role of supermarkets



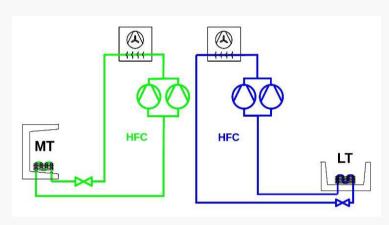
Supermarkets: Bans

 Stationary refrigeration equipment containing or relying on HFCs ≥ 2,500 GWP from 2020

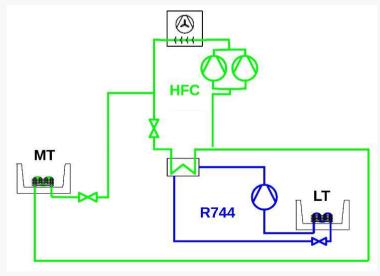
Multipack centralized refrigeration systems
 ≥40 kW containing or relying on HFCs ≥150
 GWP except in specific cascade (then ≥ 1,500
 GWP) from 2022 (Annex III (13))

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Supermarkets – prohibited after 2022 ban

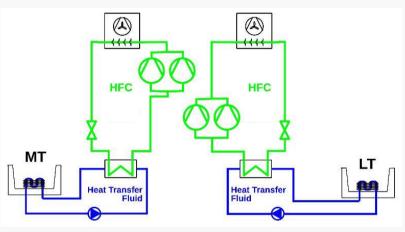


DX-systems

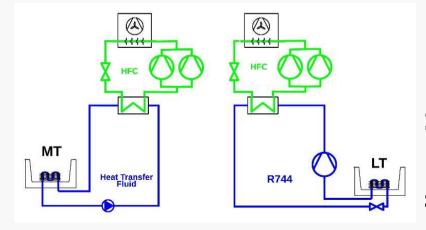


Cascade CO₂

Supermarkets – prohibited after 2022 ban



Secondary MT/LT refrigeration circuit

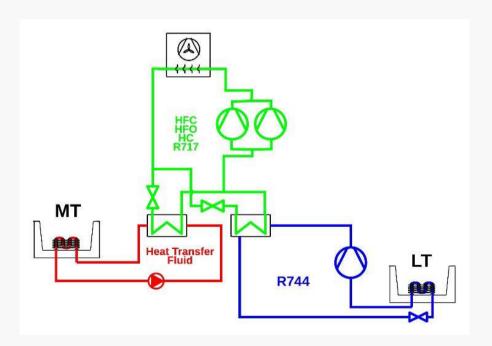


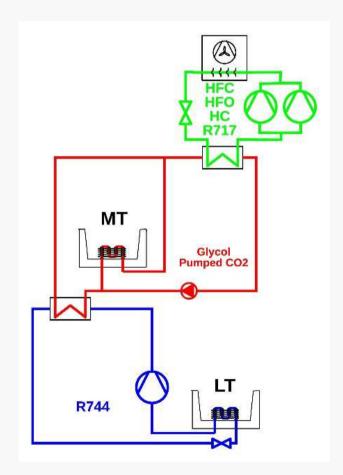
Secondary MT refrigeration circuit and LT CO₂ cascade

Specific option ≥ 40 kW

Combined secondary MT refrigeration circuit

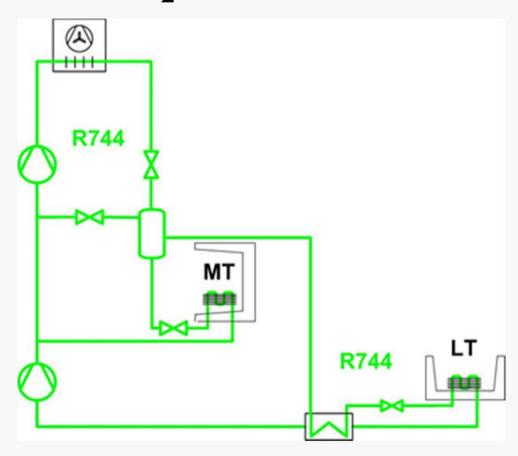
and LT CO₂ cascade





Specific option ≥ 40 kW

• Transcritical CO₂



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Supermarkets – other options

- Options other than multipack centralized ≥ 40 kW:
 - Compact condensing unit with AC function
 - Distributed systems (HFC, R290, HFO-HFC blend, HFO)

Remember additional bans!

The supermarket questionnaire

- Includes 17 questions
- Distributed to manufacturers, servicing companies, associations and NGOs
- Presentations at various industry meetings
- Link: http://oekorecherche.de/en/node/168

We need your input!

Low GWP alternatives in commercial refrigeration – next steps

- Questionnaire and evaluation of responses
- Meetings with sector experts
- Draft report by October 2016
- Stakeholder workshop in Brussels in December 2016

We need your input!

Monitoring of HFC prices

- Continued on from current DG CLIMA contract running until June 2016
- Monitoring and analysis of EU HFC market and following price developments (monthly averages) at different points in the value chain
- Quarterly compilations and reports



Monitoring of HFC prices: Stationary applications

- Survey among OEMs/ distributors
- Survey of service companies in cooperation with associations
 - VDKF in Germany





- AFCE in France
- AREA
- Prices for authorisations?

We need your input!

Monitoring of HFC prices - questionnaire

Questions relate to:

- Company characteristics
- Types of refrigerants purchased/ sold
- Average price or price index (wholesale and retail price)
- Link:
 http://oekorecherche.de/de/hfc-price-monitoring-questionnaire-oem#

Monitoring of refrigerant prices

1.	Ple	ase prov	ride sor	me information a	about yo	ur company:						
	>	Annual	sales (i	n Euro)								
	<10	0 million		10-50 million		>50-200 millio	n 🗆	>200 mill	ion			
+	 Average bulk refrigerant quantity purchased per year (in tonnes) 											
	<50	0-100		>100-250		>250-500		>500				
										-		
2.	Ple	ase prov	ide inf	ormation about	the deve	elopment of pric	es per re	frigerant ei	itherin			
0	Percent (exclusive VAT; indicate other taxes; take 2014 as baseline)											
•		☐ Euro (€ per tonne ; exclusive VAT ; indicate other taxes)										

Please ensure that the prices you provide – whether relative or absolute – always refer to one and the same container size. Ideally this is the most common size in your company.

	2014	Quarter	4/2015	Quarter 1/2016	
Refrigerant	baseline	Wholesale price	Retail price	Wholesale price	Retail price
R134a	100				
R404A	100				
R407A	100				
R407C	100				
R407F	100				
R410A	100				
R422D	100				
R449A	100				
R448A	100				
R507	100				
R717 (ammonia)	100				
R744 (CO ₂)	100				
R290 (propane)	100				
Others (please name)	100				

Please send back to questionnaire@oekorecherche.de till end of April.

Thank you very much for your input!

Assessment of quota allocation system

- Guiding questions to stakeholders:
 - Do you understand the quota allocation system?
 - Experience among quota holders
 - Experience between quota holders and equipment importers
 - Specific experience of new entrants
- Survey planned for May/June among
 - Registered companies:
 HFC producers/importers and equipment importers
 - Additional stakeholders?
- Stakeholder workshop in Brussels in December

Please contact us for follow-up!

Thank you for your attention!

Questions...???

b.gschrey@oekorecherche.de www.oekorecherche.de

Links:

Resources for this project:

http://oekorecherche.de/en/projects-references/supportingeu-f-gas-policy

Informationen regarding EU F-gas policy: http://ec.europa.eu/clima/policies/f-gas/index_en.htm

